

fnmoc_mcsrvr_31_sum

**Defense Information Infrastructure (DII)
Common Operating Environment (COE)**

**User's Manual (UM)
for the
METCAST Server (MCSRVR) Segment
Release 3.1 Series**

23 June 1999

**Prepared for:
Space and Naval Warfare Systems Command
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1 SCOPE

1.1 IDENTIFICATION

This Software User Manual (SUM) describes the use of the METCAST Server (MCSRVR) Segment of the METCAST data distribution software, Release 3.1 Series, developed by Fleet Numerical Meteorology and Oceanography Center (FNMOC), Monterey, CA. This software is designed to run under the Defense Information Infrastructure (DII) Common Operating Environment (COE), release 3.1 or higher. The software runs under the following hardware and operating systems:

- Sun Enterprise 250 or higher computer running the Sun Solaris operating system, release 2.5.1 or higher.
- Tactical Advanced Computer, TAC-3 (HP 750/755)/TAC-4 (HP J210), or HP K570 or higher running the HP-UX operating system, release 10.20 or higher.

This document has been developed in accordance with the *DII COE Developer Documentation Requirements, Version 2.0*.

1.2 SYSTEM OVERVIEW

METCAST is a standards-based, request-reply and subscription (channel) system for distributing meteorological and oceanographic (METOC) and other information over the Internet using Hyper-Text Transfer Protocol (HTTP) and Multipurpose Internet Mail Extensions (MIME). The METCAST Client provides a graphical user interface (GUI) for requesting METOC data and specifying the timing and frequency of retrievals, and for subscribing to “channels”, which are conduits for any type of information. The METCAST Server Segment is responsible for processing requests for data from METCAST Clients, interfacing with a database to attempt to satisfy each request, and formatting the retrieved data as specified in the request before returning the data to the client. The METCAST Client comprises a separate segment.

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2 REFERENCED DOCUMENTS

2.1 GOVERNMENT DOCUMENTS

DDR-2 23 January 1998	<i>Defense Information Infrastructure (DII) Common Operating Environment (COE) Developer Documentation Requirements, Version 2.0, Defense Information Systems Agency, Joint Operability and Engineering Organization</i>
Unnumbered 15 June 1998	<i>Software Requirements Specification for METCAST, Space and Naval Warfare Systems Command, Environmental Systems Program Office (SPAWAR PMW-185), San Diego, CA</i>
fnmoc_MCSRVR_IP_31Series 23 April 1999	<i>Installation Procedures (IP) for the METCAST Server (MCSRVR) Segment, Release 3.1</i>
fnmoc_MDCHNL_IP_11Series 23 April 1999	<i>Installation Procedures (IP) for the METOC Channels (MDCHNL) Segment, Release 1.1</i>
fnmoc_MDCHNL_SVD_1100 23 April 1999	<i>Software Version Description (SVD) for the METOC Channels (MDCHNL) Segment, Release 1.1.0.0</i>
fnmoc_MDMETC_IP_11Series 23 April 1999	<i>Installation Procedures (IP) for the METOC Observations Database (MDMETC) Segment, Release 1.1</i>
fnmoc_MDMETC_SVD_1100 23 April 1999	<i>Software Version Description (SVD) for the METOC Observations Database (MDMETC) Segment, Release 1.1.0.0</i>
fnmoc_METCAST_IP_11Series 23 April 1999	<i>Installation Procedures (IP) for the METCAST Client Segment, release 1.1</i>
fnmoc_METCAST_UM_1100 23 April 1999	<i>User Manual (UM) for the METCAST Client Segment, release 1.1</i>
fnmoc_METCAST_SVD_1100 23 April 1999	<i>Software Version Description (SVD) for the METCAST Client Segment, Release 1.1.0.0</i>
ipd4400magridipTES-10 29 January 1999	<i>Installation Procedures (IP) for the Grid Field Application Program Interface (API) Segment (MAGRID) of the Tactical Environmental Support System (Next Century) [TESS(NC)] Meteorological and Oceanographic (METOC) Database</i>

<p>ipd4400mdgridipTES-10 29 January 1999</p>	<p><i>Installation Procedures (IP) for the Grid Field Database Segment (MDGRID) of the Tactical Environmental Support System (Next Century) [TESS(NC)] Meteorological and Oceanographic (METOC) Database</i></p>
<p>ipd4200malltipTES-10 9 October 1998</p>	<p><i>Installation Procedures (IP) for the Latitude-Longitude-Time (LLT) Observations Application Program Interface (API) Segment (MALLT) of the Tactical Environmental Support System (Next Century) [TESS(NC)] Meteorological and Oceanographic (METOC) Database</i></p>
<p>ipd4300mdlltipTES-10 9 October 1999</p>	<p><i>Installation Procedures (IP) for the Latitude-Longitude-Time (LLT) Observations Database Segment (MDLLT) of the Tactical Environmental Support System (Next Century) [TESS(NC)] Meteorological and Oceanographic (METOC) Database</i></p>
<p>ipd4200maimgiptes-10 9 October 1998</p>	<p><i>Installation Procedures (IP) for the METOC Imagery Application Program Interface (API) Segment (MAIMG) of the Tactical Environmental Support System (Next Century) [TESS(NC)] Meteorological and Oceanographic (METOC) Database</i></p>
<p>ipd4400mdgridipTES-10 9 October 1999</p>	<p><i>Installation Procedures (IP) for the METOC Imagery Database Segment (MDIMG) of the Tactical Environmental Support System (Next Century) [TESS(NC)] Meteorological and Oceanographic (METOC) Database</i></p>
<p>Unnumbered 3 May 1999</p>	<p><i>Installation Manual for the Regional Center System, Revision D</i></p>

2.2 NON-GOVERNMENT DOCUMENTS

None.

3 SOFTWARE SUMMARY

3.1 SOFTWARE DESCRIPTION

METCAST allows a user to define data requirements (areas of interest, data requirements for each area, and frequency with which data are required for each area) and "subscribe" to the required data. Once a subscription is updated, the specified server will automatically update the data at whatever interval the user has specified. In simpler terms, the user sends the server a "wish list" of data requirements, and the server retrieves the data from its local database and sends it to the client as often as the user wishes.

The METCAST Server segment is responsible for receiving and decoding user requests (including those for data delivered through channels), retrieving the requested data from the database, packaging it for transmission, and returning it to the requester via HTTP. The METCAST Server segment also includes an HTML-based interface for setting up and configuring new channels.

3.2 SOFTWARE INVENTORY

A complete inventory of the METCAST Client software is contained in the Software Version Descriptions for the METCAST Server (MCSRVR) Segment, METOC Channels (MDCHNL) Segment, and METOC Observations Database (MDMETC) Segment, listed in Section 2.1.

3.3 SOFTWARE ENVIRONMENT

A complete description of the software environment, and a list of manuals provided with the METCAST Server Segment software, are contained in Software Version Descriptions for the METCAST Server (MCSRVR) Segment, METOC Channels (MDCHNL) Segment, and METOC Observations Database (MDMETC) Segment, listed in Section 2.1.

3.4 SOFTWARE ORGANIZATION AND OPERATION OVERVIEW

The METCAST Server software consists of three segments:

1. MDCHNL – The METOC Channels segment. This segment contains the Channels database schema and CGI scripts to access channels data.
2. MDMETC – The METOC Observations database segment. This segment contains the Observations database schema and CGI scripts to access observation data.

3. MCSRVR – The METCAST Server segment. This segment consists of CGI scripts and code to process requests, package and return data, access and maintain the TEDS, Channels, and Observations databases, and maintain logs of all actions. The Server segment also communicates with the Retriever from the Client segment, passing it status information as well as retrieved data.

The METCAST Server segment interfaces with the Tactical Environmental Data Server (TEDS), Release 4.1 or higher, to retrieve gridded and observation data. The following TEDS segments must be installed before METCAST Server is installed:

- MAGRID – Grid Field Data API Segment
- MDGRID – Grid Field Data Database Segment
- MALLT – Latitude-Longitude-Time Observation API Segment
- MDLLT – Latitude-Longitude-Time Observation Database Segment
- MAIMG – METOC Imagery Data API Segment
- MDIMG – METOC Imagery Database Segment

Installation procedures for these segments are listed in Section 2. Note that TEDS also requires installation of Informix on the server.

When a request is scheduled, the METCAST Client formulates a request message and forwards it via HyperText Transfer Protocol (HTTP) to the server(s) from which the data are requested. The METCAST Server checks its databases to find out whether it has any new data to fill the request. If not, it returns a message to that effect. If there is new data, the server extracts the data from its database(s), packages it, and returns it to the client.

3.5 MODES OF OPERATION

This section is tailored out.

3.6 SECURITY AND PRIVACY

There are no security and privacy considerations peculiar to the METCAST Server segments.

3.7 ASSISTANCE AND PROBLEM REPORTING

The point of contact for assistance and problem reporting is:

Mr. Dave Huff
Fleet Numerical Meteorology and Oceanography Center
7 Grace Hopper Avenue
Monterey, CA 93943

Phone: (831) 656-4569

E-mail: huff.david@metnet.navy.mil

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4 ACCESS TO THE SOFTWARE

4.1 SOFTWARE SETUP

4.1.1 Installation on DII COE Systems

Installation and initial configuration of the MCSRVr software on DII COE systems are covered in the Installation Procedures for the METCAST Server (MCSRVr) Segment, METOC Channels (MDCHNL) Segment, and METOC Observations Database (MDMETC) Segment, referenced in Section 2.1. This procedure uses the DII COE Installer software.

4.1.2 Installation on Non-DII COE Systems

Installation and initial configuration of the MCSRVr software on non-DII COE Sun Solaris systems are covered in the Regional Center Installation Manual, referenced in Section 2.1. This manual covers installation and configuration of Informix, which is necessary for the METCAST Server installation, and installation and configuration of METCAST Server and the web server from a TAR file.

4.1.3 Familiarization

METCAST Server is designed as a “start it and forget it” process. Once started, it continues to run as long as the system stays up, receiving and processing requests from METCAST Clients. There are few user interactions required, although a web-based GUI is provided for administering channels.

4.1.4 Access Control

To start a METCAST Server session on DII COE installations, you must be able to log in as sysadmin. Generally this action is performed by the System Administrator, who also controls granting of the sysadmin password.

4.2 INITIATING A SESSION

In non-DII COE installations, the installation procedure installs startup scripts that automatically start METCAST Server each time the system is restarted. To start METCAST Server in DII COE installations, start the system, log in as sysadmin, and open the **Network** menu on the menu bar. Select the **Servers** option, then **Metcast Server** under the Servers submenu. Select **Start All Decoders** to start the METCAST decoders, then **Publish Dynamic Product List** to publish the product list (a list of data that is present on your server, which is published to all clients that subscribe to your server). This completes the server startup process.

4.3 STOPPING AND SUSPENDING WORK

To stop the server in a DII COE installation, log in as sysadmin, pull down the **Network** menu, select **Servers**, then **Metcast Server**, and select **Stop All Decoders** from the Metcast Server submenu. This stops the decoders, which essentially turns off the server.

5 METCAST SERVER PROCESSING GUIDE

As previously mentioned, the operation of METCAST Server is largely transparent to the user and requires almost no user interaction. Information concerning the server's operations is sent to logs that can be reviewed by Systems Administrators and/or software engineers if problems arise. The only true user interface is the Channels Administration interface, which is described below.

5.1 ADMINISTERING METCAST CHANNELS

METCAST Server provides a web browser-based interface for administering channels. This interface allows an approved user to create new channels, assigning MIME types and user permissions to them, to modify existing channels, and to delete channels. Each of these functions is described below. To start the Channel Administration interface, start the browser and navigate to the site on your server in which the Channel Administration main page is installed.

5.1.1 Creating a New Channel

The Channel Administration page provides two interfaces for creating a new channel – the Channel Wizard, which walks the user step by step through the process, and a manual method where you simply enter all of the channel parameters on a form.

5.1.1.1 The Channel Wizard

The Channel Wizard provides step-by-step instructions for setting up a new channel. When the Channel Wizard button is clicked, the first channel definition screen is displayed:

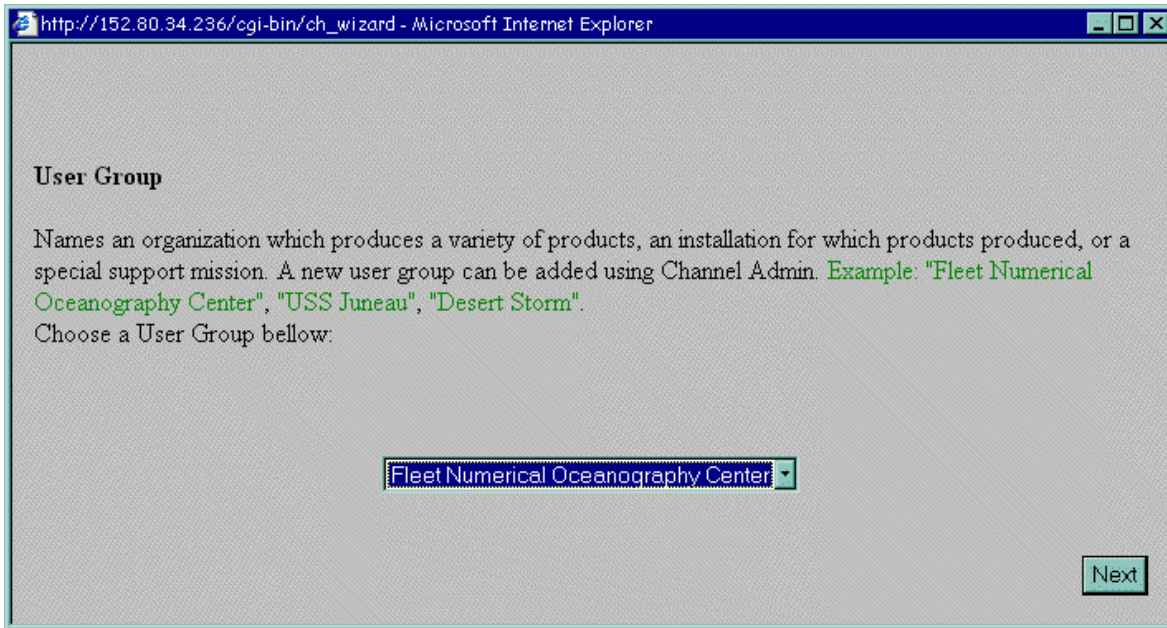


Figure 1. Channel Wizard Opening Screen

This screen is used to select a User Group. To open the list of user groups that are available, click on the down-pointing arrowhead next to the list box. Clicking any item in the list selects it, closes the list box, and displays the new selection in the box. Click the **Next** button to continue with the Wizard. To add a new user group, you must go back to the main Channel Admin page (use the browser's **Back** button) and use the **Add** button under the **User Group** heading (see Section 5.1.2 for details).

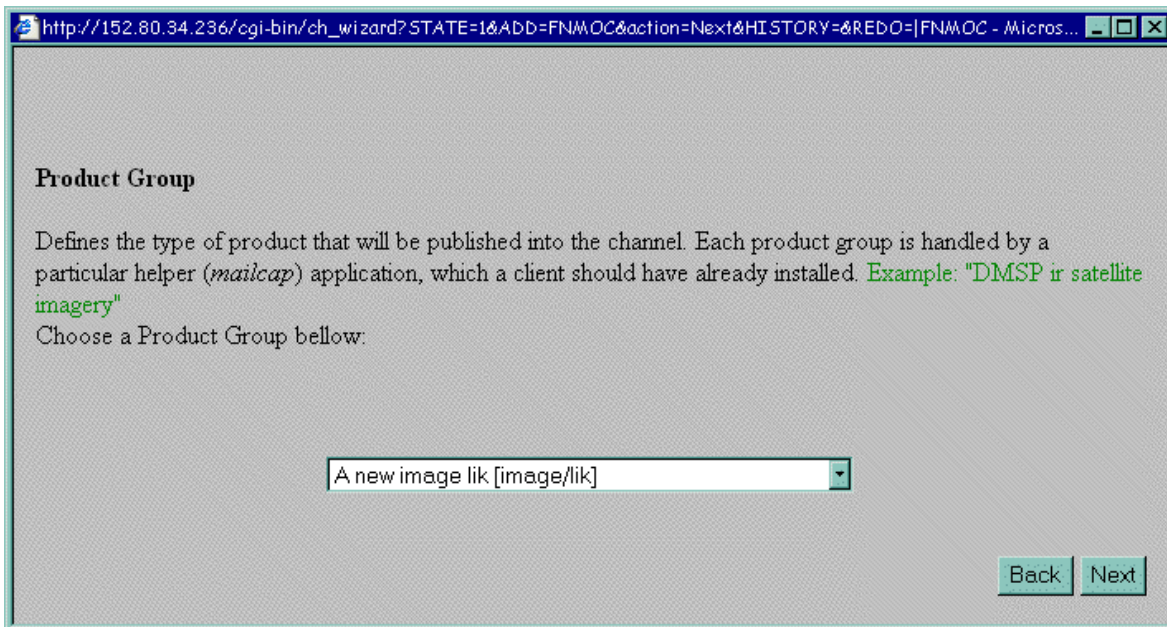
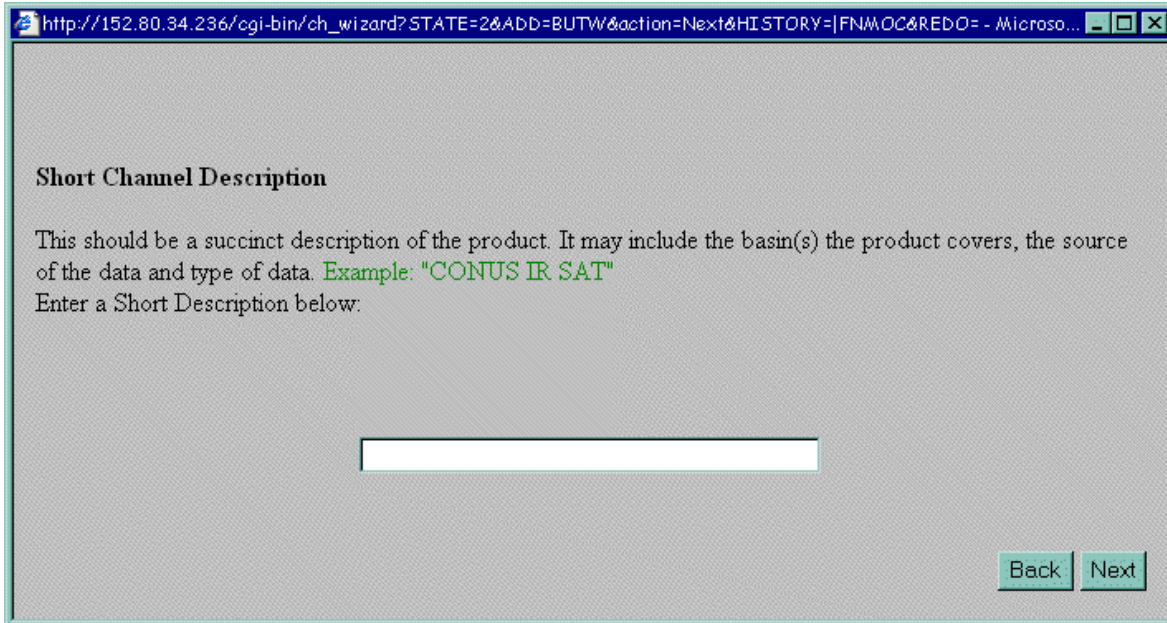


Figure 2. Channel Wizard Screen 2

The second screen of the Wizard, shown in Figure 2, is used to select a Product Group. Pull down the Product Group list and select any item. Click the **Next** button to proceed to Screen 3, or the **Back** button to return to the opening screen. To add a new product group, you must go back to the main Channel Admin page (use the browser's **Back** button) and use the **Add** button under the **Product Group** heading (see Section 5.1.4 for details).



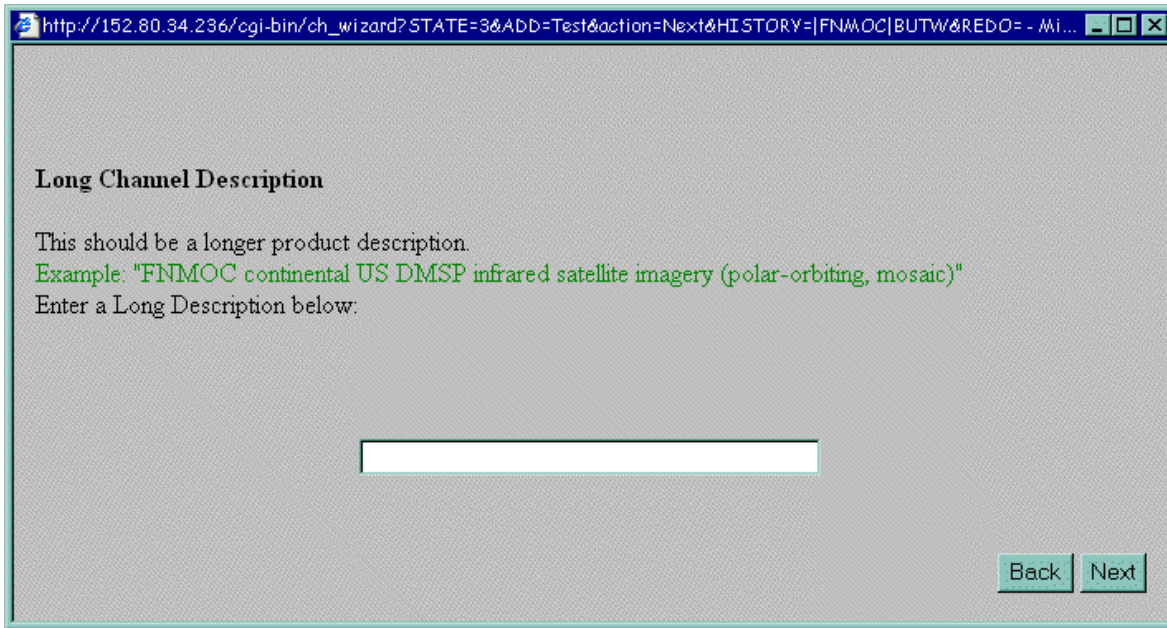
Short Channel Description

This should be a succinct description of the product. It may include the basin(s) the product covers, the source of the data and type of data. **Example:** "CONUS IR SAT"

Enter a Short Description below:

Figure 3. Channel Wizard Screen 3

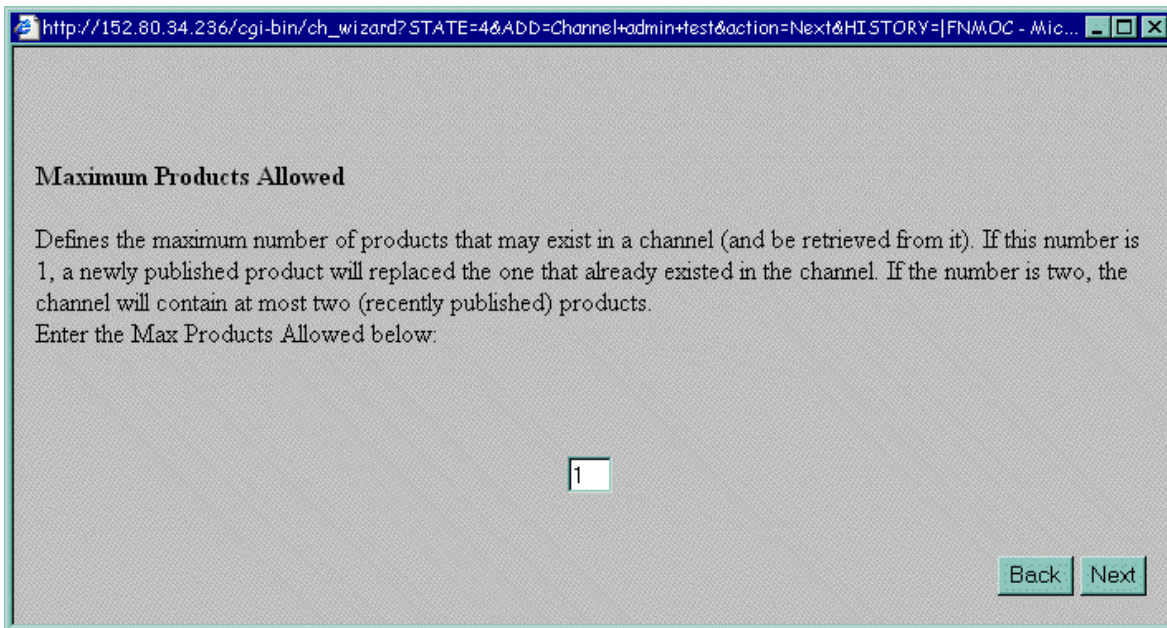
The third screen of the Wizard is used to enter a short description of the channel. Just type the description into the text entry box. Click on the **Next** button to proceed to the next screen, shown in Figure 4, or the **Back** button to return to Screen 2.



The screenshot shows a web browser window with the address bar containing the URL: `http://152.80.34.236/cgi-bin/ch_wizard?STATE=3&ADD=Test&action=Next&HISTORY=[FNMOC]BUTW&REDO=- Mi...`. The main content area has a title "Long Channel Description" and a paragraph: "This should be a longer product description. Example: 'FNMOC continental US DMSP infrared satellite imagery (polar-orbiting, mosaic)'" in green text. Below this is the instruction "Enter a Long Description below:" followed by a large, empty text input box. At the bottom right are two buttons labeled "Back" and "Next".

Figure 4. Channel Wizard Screen 4

This screen is used to enter the full channel description. Simply type the description into the text entry box. Click on the **Next** button to proceed to the next screen, shown in Figure 5, or the **Back** button to return to Screen 3.

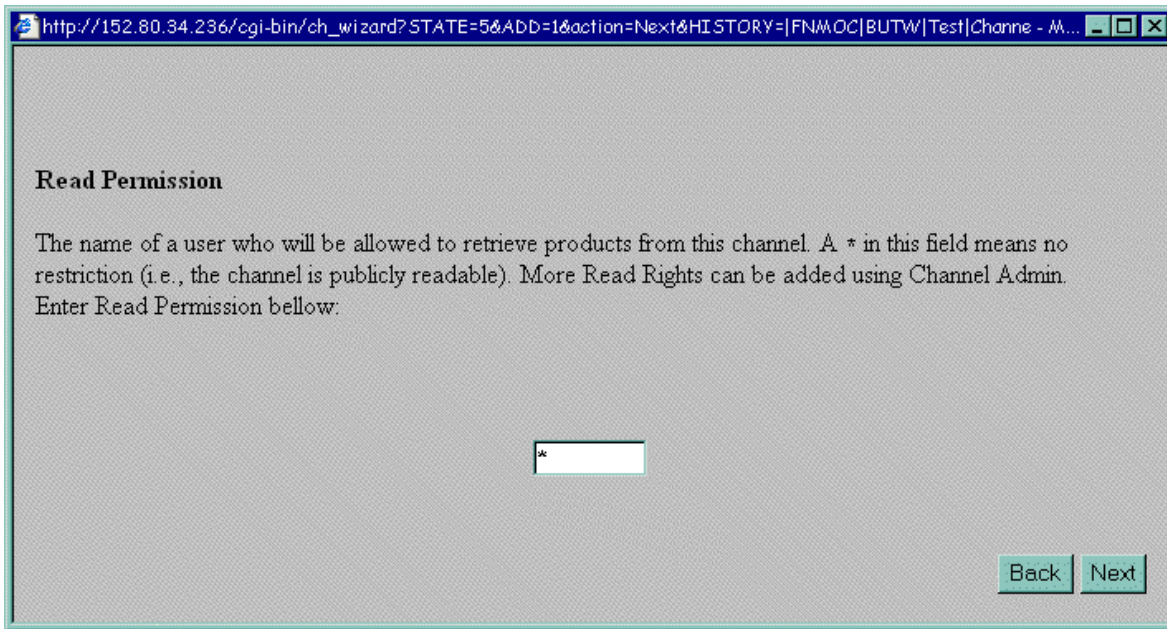


The screenshot shows a web browser window with the address bar containing the URL: `http://152.80.34.236/cgi-bin/ch_wizard?STATE=4&ADD=Channel+admin+test&action=Next&HISTORY=[FNMOC - Mic...`. The main content area has a title "Maximum Products Allowed" and a paragraph: "Defines the maximum number of products that may exist in a channel (and be retrieved from it). If this number is 1, a newly published product will replaced the one that already existed in the channel. If the number is two, the channel will contain at most two (recently published) products." Below this is the instruction "Enter the Max Products Allowed below:" followed by a small text input box containing the number "1". At the bottom right are two buttons labeled "Back" and "Next".

Figure 5. Channel Wizard Screen 5

This screen allows the user to specify the maximum number of products that may exist in the channel. Setting this number to a low value reduces the amount of disk space used to store the channel data; higher values require more disk space. Type the desired number in the entry box.

Click on the **Next** button to proceed to the next screen, shown in Figure 6, or the **Back** button to return to Screen 4.



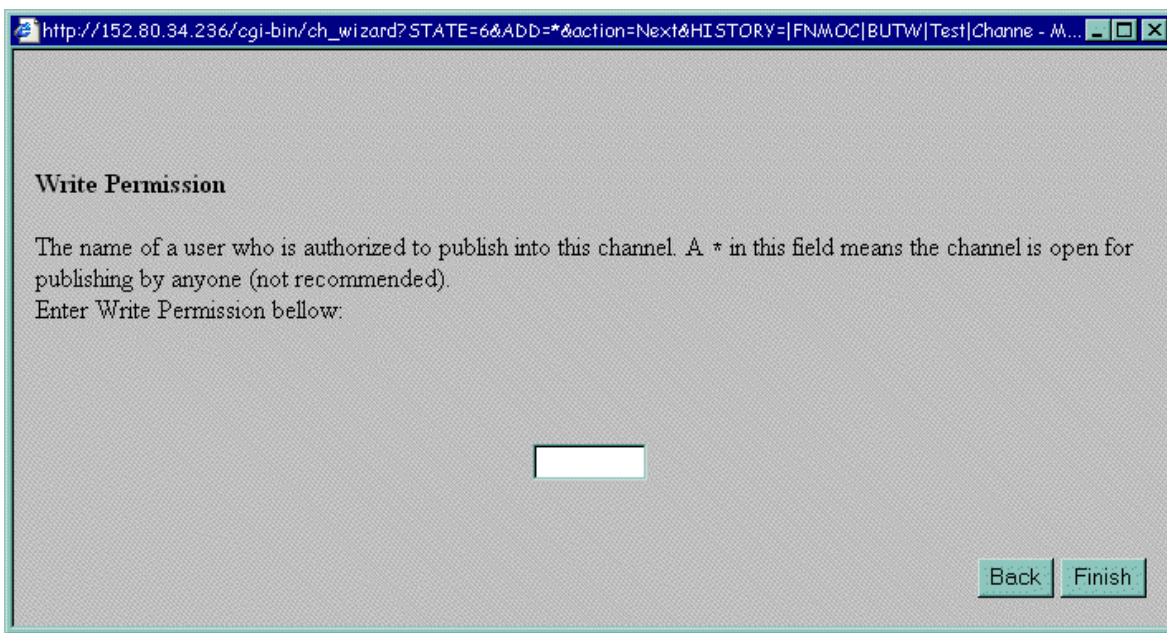
Read Permission

The name of a user who will be allowed to retrieve products from this channel. A * in this field means no restriction (i.e., the channel is publicly readable). More Read Rights can be added using Channel Admin.

Enter Read Permission below:

Figure 6. Channel Wizard Screen 6

This screen is used to establish read permissions for the channel. Enter the name of a user, or *, in the entry box as directed. This is used to establish rights for only one user; to add more users, use the **Modify or Delete** option under the Channels heading on the main Channel Admin page. Click on the **Next** button to proceed to the final screen, shown in Figure 7, or the **Back** button to return to Screen 5.



Write Permission

The name of a user who is authorized to publish into this channel. A * in this field means the channel is open for publishing by anyone (not recommended).

Enter Write Permission below:

Figure 7. Channel Wizard Screen 7

The final screen of the Wizard is used to establish one user with write permission for the channel. To add write permission for more users, use the **Modify or Delete** option under the Channels heading on the main Channel Admin page. Click on the **Finish** button to complete the channel creation process, or the **Back** button to return to Screen 5.

5.1.1.2 Creating a Channel Manually

The **Add** button under the Channels heading on the main Channel Admin page opens the page shown in Figure 7, which allows the user to make all entries for a new channel on one page. It is the functional equivalent of the Channel Wizard for more advanced users.

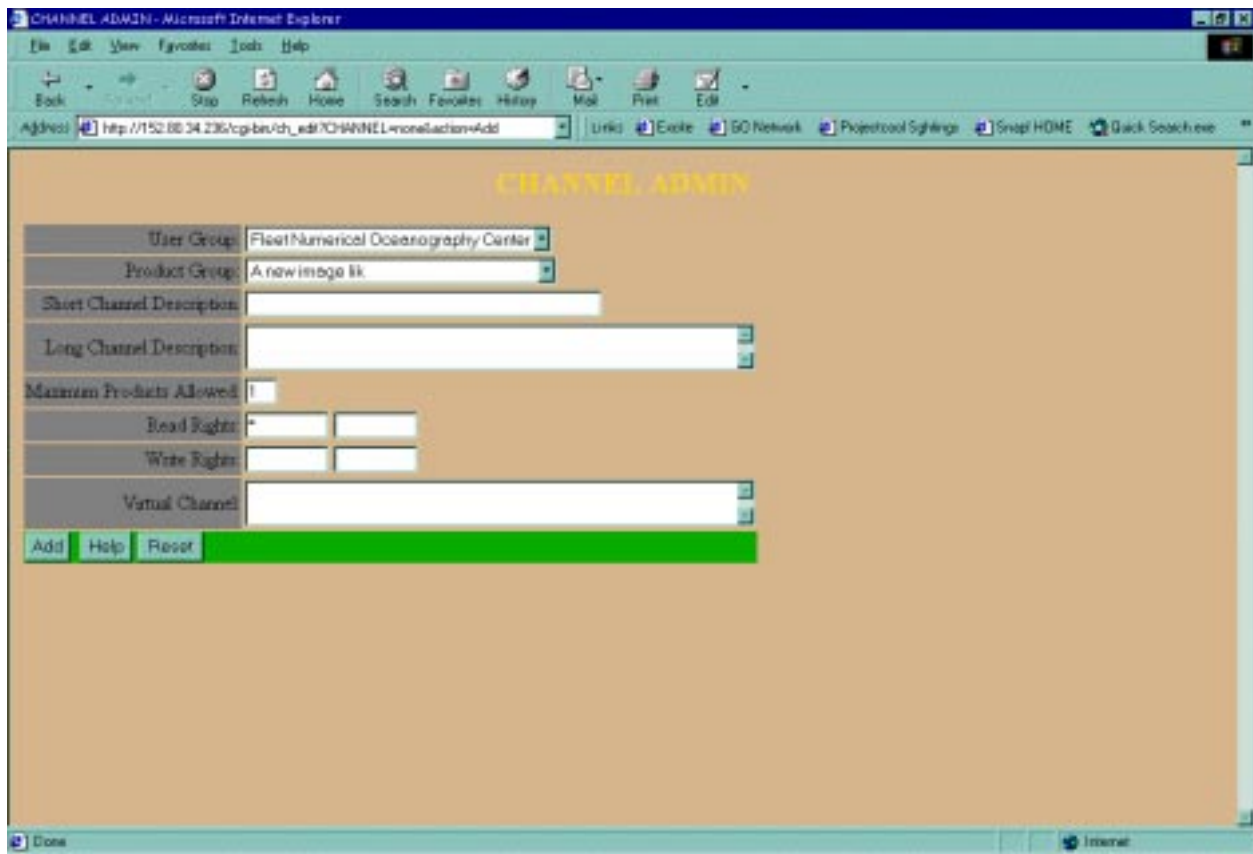
The image is a screenshot of a web browser window titled "CHANNEL ADMIN - Microsoft Internet Explorer". The address bar shows "http://152.88.34.235/cgi-bin/ch_admin/CHANNEL-adminActionAdd". The main content area has a yellow header "CHANNEL ADMIN". Below it is a form with several fields: "User Group" (a pull-down menu showing "Fleet Numerical Oceanography Center"), "Product Group" (a pull-down menu showing "A new image link"), "Short Channel Description" (a text input field), "Long Channel Description" (a text input field), "Maximum Products Allowed" (a text input field with "1"), "Read Rights" (a text input field), "Write Rights" (a text input field), and "Virtual Channel" (a text input field). At the bottom of the form are three buttons: "Add", "Help", and "Reset". The browser's status bar at the bottom shows "Done" and "Internet".

Figure 8. Add Channel Screen

- **User Group** defines the group of users who will be participating in the channel (publishing/reading). Selection is made from a pull-down list. To add a new user group, you must go back to the main Channel Admin page (use the browser's **Back** button) and use the **Add** button under the **User Group** heading (see Section 5.1.2 for details).
- **Product Group** defines the type of products that the channel will handle. Each product type has an entry in the *mailcap* file that tells the METCAST Client at the receiving end how to handle data downloaded via the channel. Selection is made from a pull-down list. To add a new product group, you must go back to the main Channel Admin page (use the browser's

Back button) and use the **Add** button under the **Product Group** heading (see Section 5.1.4 for details).

- **Short Channel Description** is used to enter a succinct description for the channel. Entry is made by typing into the text box.
- **Long Channel Description** is used to enter a more complete channel description. Entry is made by typing into the text box.
- **Maximum Products Allowed** defines the maximum number of products that will be allowed into the channel at one time. If 1 is entered, the product will be overwritten whenever a newer product is published into the channel. If 2 were entered, the last two products published into the channel would be kept, and so on.
- **Read Rights** should be a * if everyone will have the right to retrieve products from the channel. It can also be a METCAST user name.
- **Write Rights** should be a METCAST user name or the METCAST user name of the Publishing Facility. Could be a * but not recommended, as this would allow everyone to publish into the channel.
- **Virtual Channel** -- A virtual channel is the one that stores its content in a place other than the usual MDCHNL database, or one that requires a special processing of incoming content. For example, one may set a virtual channel for tropical cyclone warnings, MORIAH reports, or satellite imagery. These products are not normally stored in the MDCHNL database.

The **Add** button adds the channel defined by the entries on the screen to the Channels list. The **Help** button opens a help screen in a separate window. The **Reset** button resets all entries to the default values.

5.1.2 Creating a New User Group

A User Group is an organization which produces a variety of products, an installation for which products are produced, or a special support mission. Examples are: "Fleet Numerical Oceanography Center", "USS Juneau", and "Desert Storm". A new user group can be added in Channel Admin by clicking on the **Add** button under the User Group heading. This opens the Add User Group screen shown in Figure 9.

- **User Group ID** is the key to this User Group's database entry. Once set, this value can only be changed if this User Group is deleted and re-created. Most often the acronym of the publishing facility is used. Example: "FNMOC"
- **Description** can be changed and is only used to better identify the User Group. Most often the full name of the publishing facility is used. Example: "Fleet Numerical Meteorology Oceanography Center"

- **Contact Info** can be changed and is the address used to contact the User Group regarding their products. Most often the e-mail of a position within the Publishing facility is used. Example: "webmaster@fnmoc.navy.mil"

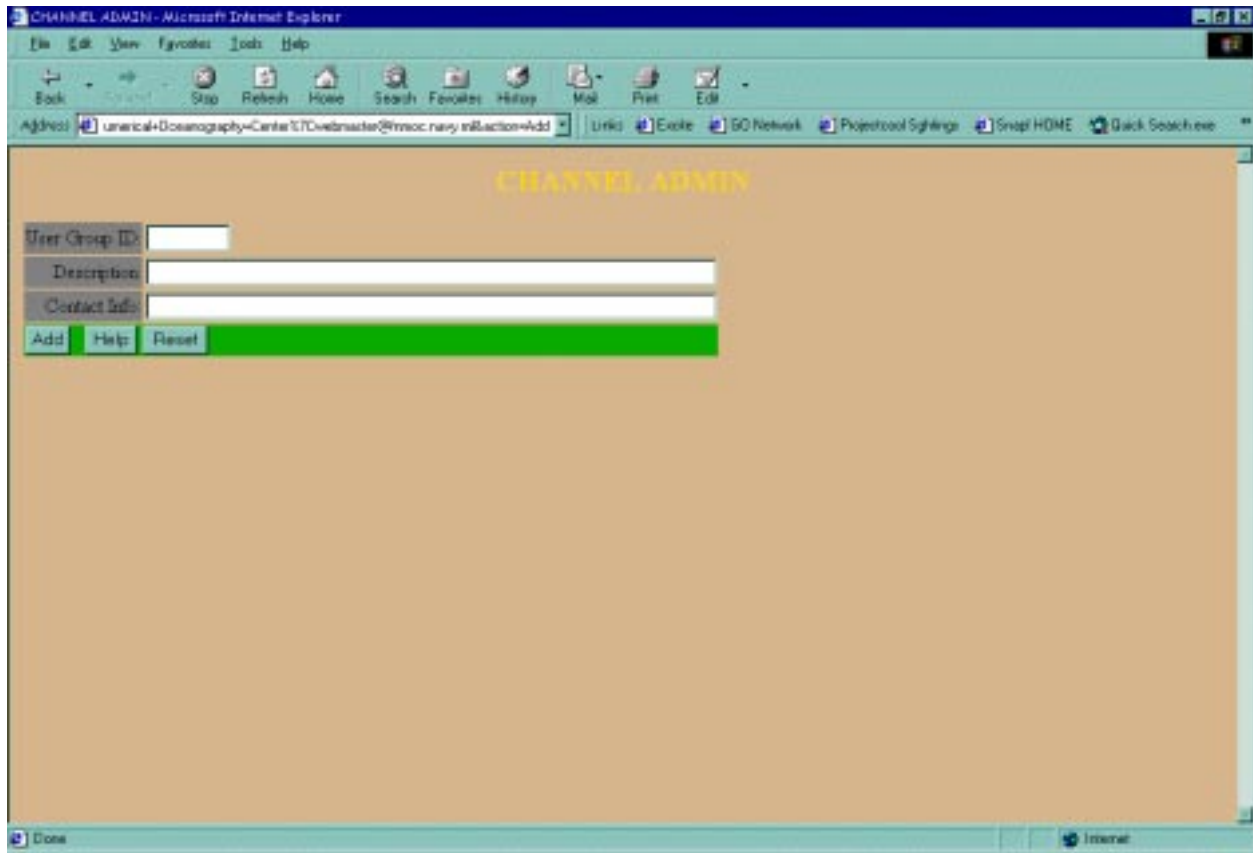


Figure 9. Add User Group Screen

All entries are made by typing in the entry boxes. The **Add** button adds the user group defined by the entries to the User Group list. The **Help** button opens a help window. The **Reset** button clears all entries.

5.1.3 Deleting or Modifying a User Group

The User Group currently selected in the User Group list box may be modified or deleted by clicking the **Modify or Delete** button under the User Group heading. This opens the dialog shown in Figure 10.

As mentioned in Section 5.1.2, the User Group ID cannot be changed. If you want to change a User Group ID, you must delete the User Group and create one with the desired new ID. The Description and Contact Info may be changed by simply typing new values into the boxes. The **Change** button changes the Description and/or Contact Info to the values currently shown in the entry boxes. The **Delete** button deletes the user group currently displayed. The **Reset** button resets all entries to their original values.

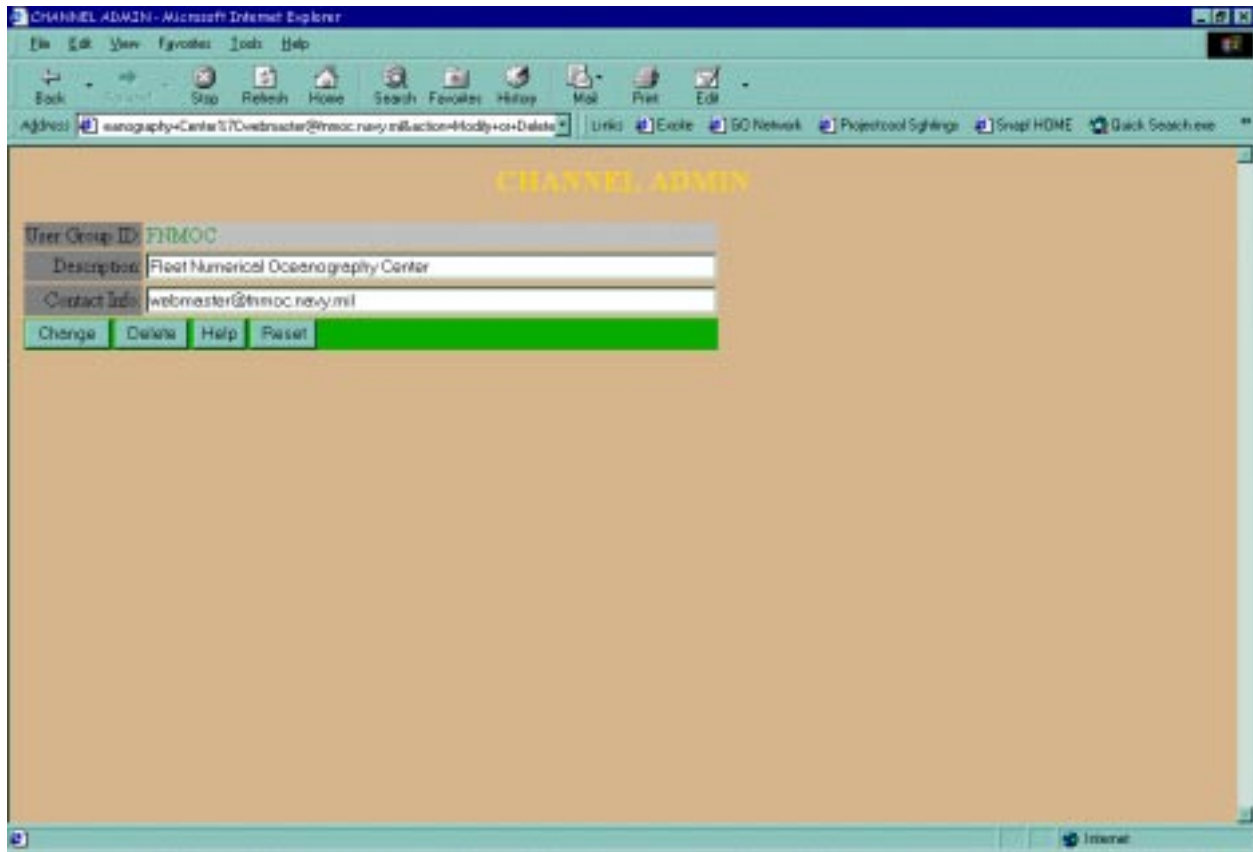


Figure 10, User Group Modify/Delete Screen

5.1.4 Creating a New Product Group

A Product Group is a collection of product types that need to be handled similarly by a METCAST Client. For example, you might create a PowerPoint product group that represented all PowerPoint slide shows. These would be assigned a common MIME type, and then users could configure their mailcap files to ensure that PowerPoint slide shows always were routed to PowerPoint for display. A Product Group is just a way to tell users at the Client end what types of data are in the channel and to give them enough information to decide how to handle the data when it arrives at the Client.

A new Product Group can be created by clicking the **Add** button under the Product Group heading in Channel Admin. This opens the screen shown in Figure 11, which allows the user to define the parameters for the Product Group.

- **Product Group ID:** Once set, this value cannot be modified, except by deleting and re-creating the Product Group. This is the key to this Product Group's database entry. Most often the acronym of the product name is used. Example: "DMSP-IR"
- **MIME Type:** Once set, this value cannot be modified, except by deleting and re-creating the Product Group. MIME stands for Multipurpose Internet Mail Extension, a standard system for identifying the type of data contained in a file based on its extension. MIME is an Internet

protocol that allows the transfer of binary files across the Internet. This includes graphics, photos, sound and video files, and formatted text documents. MIME has to negotiate many different operating systems and types of software. The MIME type identifies the product to the Client, which can then consult its mailcap file to find out how to handle the product. Example: "image/gif"

- **Description:** This entry can be changed and is only used to better identify the Product. Most often the full name of the product is used. Example: "DMSP IR satellite imagery"

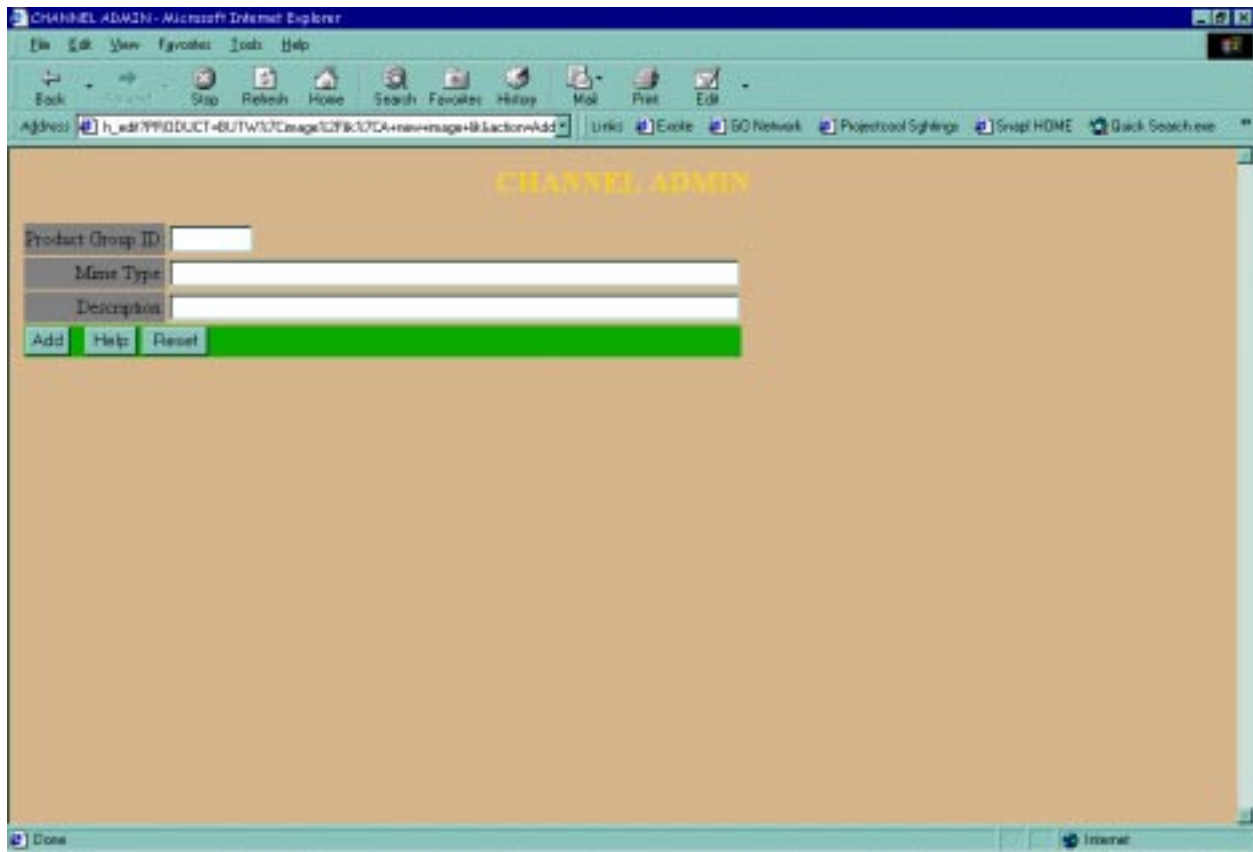


Figure 11. Product Group Add Screen

The **Add** button adds the Product Group defined by the entries to the Product Group list. The **Help** button opens a separate window displaying help on creating a new Product Group. The **Reset** button clears all entries.

5.1.5 Modifying or Deleting a Product Group

The Product Group currently selected in the Product Group list box can be modified or deleted by clicking on the **Modify or Delete** button under the Product Group heading. This opens the Product Group Modify/Delete screen shown in Figure 12.

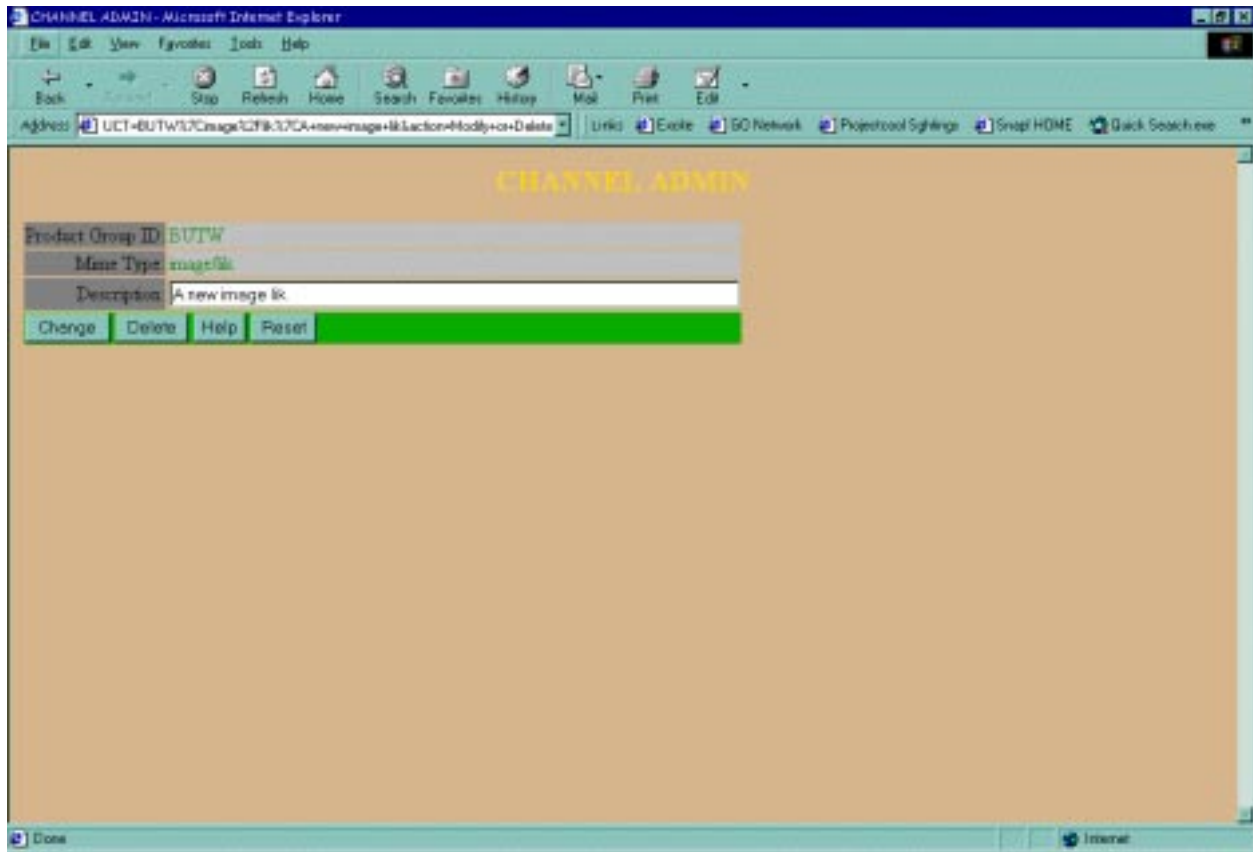


Figure 12. Product Group Modify/Delete Screen

As stated in Section 5.1.4, the Product Group ID and Mime Type cannot be changed unless the Product Group is deleted and re-created. The Description may be changed by typing a new description into the entry box. The **Change** button changes the Product Group information to the new values. The **Delete** button deletes the Product Group currently displayed. The **Help** button displays help in a separate window. The **Reset** button resets all entries to their original values.

5.1.6 Modifying or Deleting a Channel

To modify channel information, or to delete a channel, start by clicking the **Modify or Delete** button under the Channels heading. This opens the Channel Search dialog shown in Figure 13. This dialog is used to find the channel(s) to be modified or deleted.

A search may be done by User Group (gets all channels for the selected User Group), Product Group (gets all channels for the selected product type), Channel ID (gets the channel with the selected channel ID), or keyword (gets all channels whose descriptions contain the keyword(s) entered). The first three criteria are selected from pull-down lists; the keyword(s) may be entered in a type-in entry box. The **Select** button searches for and selects all channels matching your search criteria. The **Add** button opens the Channel Add dialog (see Section 5.1.1.2). The **Help** button opens a separate Help window. The **Reset** button resets all of the search criteria to their default values.

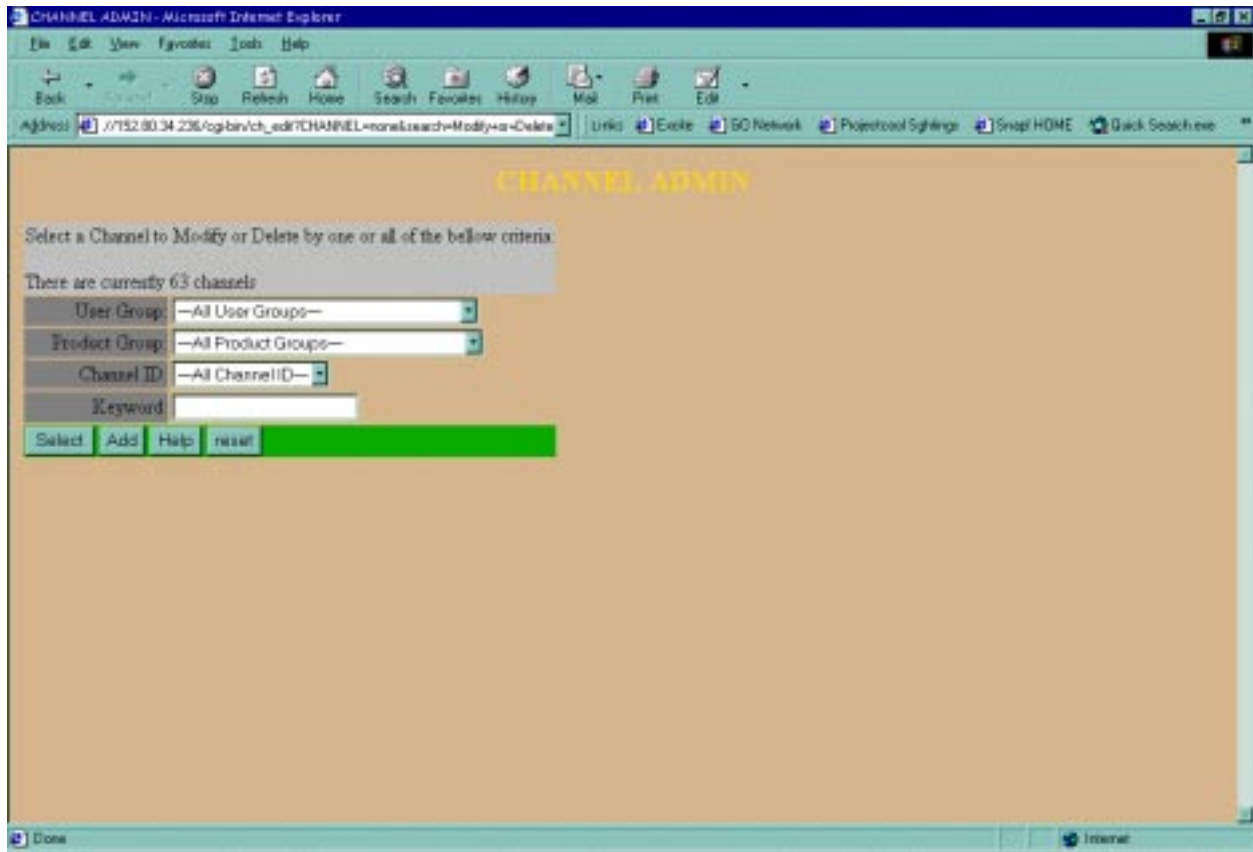


Figure 13. Channel Search Dialog

Clicking the **Select** button after setting the search criteria causes Channel Admin to search for and select all channels matching the specified criteria. Figure 14 shows the results of such a search.

This dialog displays all of the channels found that met the search criteria. For each channel, there are three option buttons:

- **Edit** opens the Channel Edit dialog (Figure 15), which allows editing of certain channel properties (those displayed in gray boxes may not be edited).
- **Add Rights** opens the Add Rights dialog (Figure 16), which allows addition or deletion of users' Read and Write privileges for the channel.
- **Delete** deletes the selected channel.

CHANNEL ADMIN

Action	Channel ID	Product Group	User Group	Description	Virtual?
Edit Add Rights Delete	19	JIMBO	JIMBO	Jerms Channels	No
Edit Add Rights Delete	63	PPOINT	JIMBO	Channel Wizard	No
Edit Add Rights Delete	66	DMSP-VIS	JIMBO	Hello my name	No
Edit Add Rights Delete	69	WAM	JIMBO	Cool New Channel	No
Edit Add Rights Delete	71	FAQ	JIMBO	New Channel	No

Figure 14. Channel Search Results Dialog

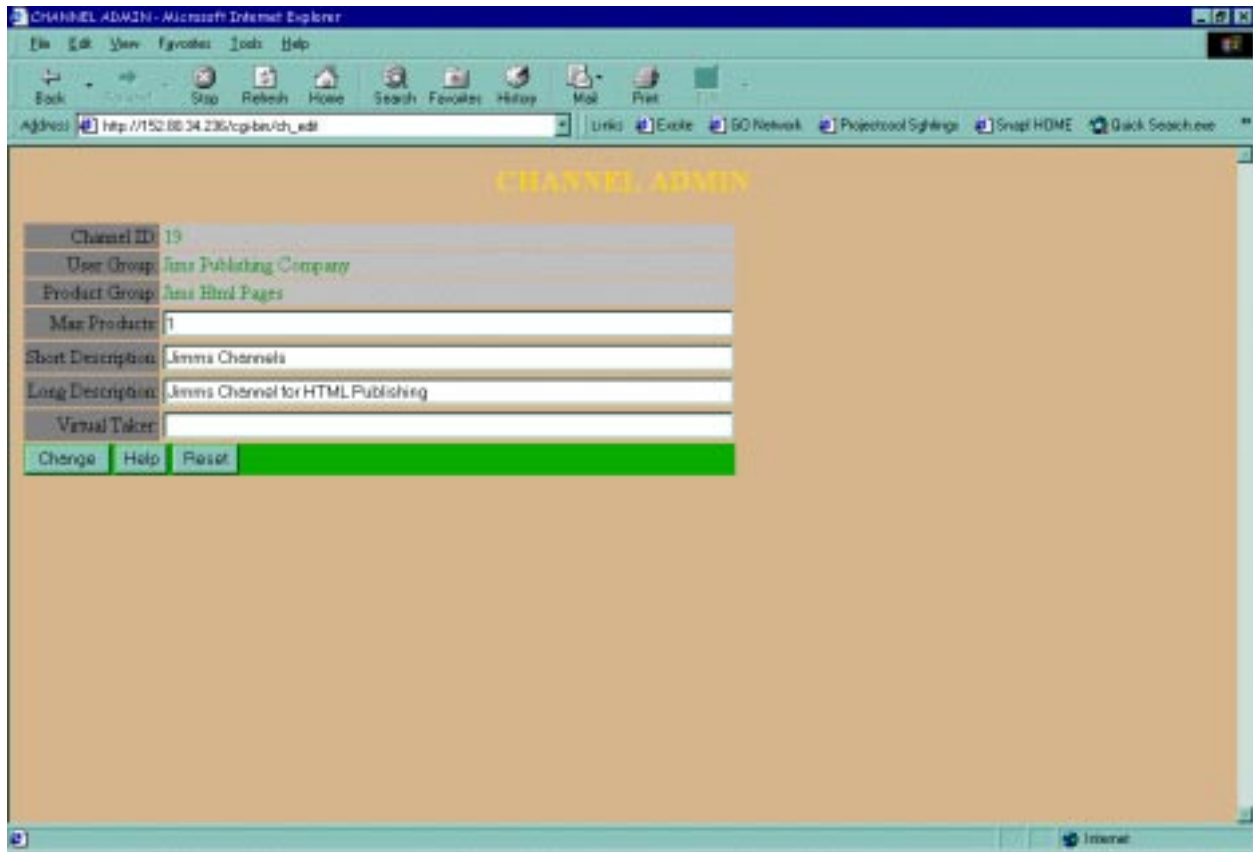


Figure 15. Channel Edit Dialog

In this dialog, the values in the white boxes may be edited (values in the gray boxes cannot be changed). The **Change** button changes the channel properties to reflect what is shown in the boxes. The **Help** button opens a separate Help window providing assistance in editing channel properties. The **Reset** button resets the entries to their original (unedited) values.

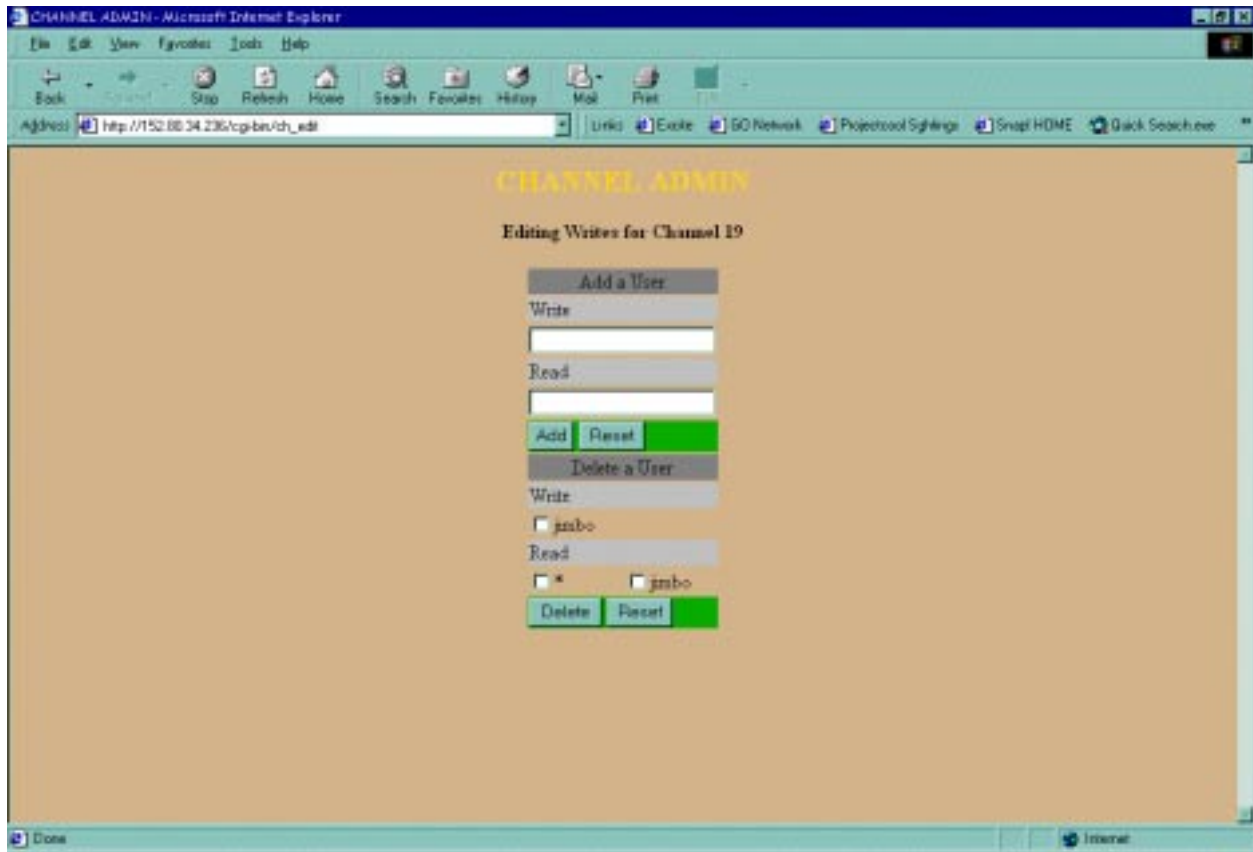


Figure 16. Add Rights Dialog

This dialog is used to add or delete user rights. You can grant a user rights by typing the user name in the **Write** and/or **Read** boxes and then clicking on the **Add** button. Granting a user **Read** privileges means that the user can read information that is in the channel. Granting **Write** privileges means that the specified user can publish information to the channel for others to view. The **Reset** button clears the entry boxes.

The **Delete a User** section displays the users granted rights to the channel. To delete a user, click on the check box next to the user name – an **X** will appear in the box when it is selected. Then click on the **Delete** button to delete the selected rights for that user. Separate check boxes are provided for **Write** and **Read** privileges. The **Reset** button clears all of the check boxes.

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6 NOTES

6.1 GLOSSARY OF ACRONYMS

COE	Common Operating Environment
DII	Defense Information Infrastructure
DoD	Department of Defense
FNMOCC	Fleet Numerical Meteorology and Oceanography Center
HTML	HyperText Markup Language
HTTP	HyperText Transfer Protocol
IP	Installation Procedures
MCSRVR	METCAST Server Segment
MDCHNL	METOC Channels Segment
MDMETC	METOC Observations Database Segment
METOC	Meteorology and Oceanography
MIME	Multi-purpose Internet Mail Extensions
SPAWAR	Space and Naval Warfare Systems Command
SUM	Software User's Manual
SVD	Software Version Description
TAC	Tactical Advanced Computer
TEDS	Tactical Environmental Data System
UM	User's Manual

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7 DOCUMENTATION IMPROVEMENT AND FEEDBACK

Comments and other feedback on this document should be directed to the DII COE Hotline:

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